|  | Application No.   | Applicant(s)  |
|--|---|---|
| Nation of Allows Liller  | 10/698,347  | SOTO-NICOLAS, ALBERTO   |
| Notice of Allowability   | Examiner  | Art Unit  |
|  | Tai T. Nguyen   | 2632  |
| The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313  | (OR REMAINS) CLOSED in this ap<br>or other appropriate communication<br>IGHTS. This application is subject to | plication. If not included will be mailed in due course. THIS |
| 1. $\boxtimes$ This communication is responsive to <u>application filed on 10</u>  | <u>0/31/03</u> .  |   |
| 2. The allowed claim(s) is/are <u>1-28</u> .   |   |   |
| 3. The drawings filed on 31 October 2003 are accepted by the Examiner.   |   |   |
| <ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul> |   |   |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  |   | complying with the requirements                               |
| 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give  | itted. Note the attached EXAMINER es reason(s) why the oath or declara  | 'S AMENDMENT or NOTICE OF ation is deficient.                 |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mus  | st be submitted.  |   |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached   |   |   |
| 1) hereto or 2) to Paper No./Mail Date   |   |   |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of<br>Paper No./Mail Date  |   |   |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the   | .84(c)) should be written on the drawing the header according to 37 CFR 1.121(                                | ngs in the front (not the back) of d).                        |
| 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT   | SIT OF BIOLOGICAL MATERIAL REPORTHE DEPOSIT OF BIOLOGIC   | must be submitted. Note the AL MATERIAL.                      |
| Attachment(s)  1. ☑ Notice of References Cited (PTO-892)   |   | Patent Application (PTO-152)                                  |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948)   | <ol> <li>Interview Summary<br/>Paper No./Mail Da</li> </ol>   |   |
| <ul> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 10/31/03</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit</li> </ul>   | 18), 7. Examiner's Amendr   |   |
| of Biological Material   | 9.  |   |
|  |   |   |

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## **DETAILED ACTION**

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## Allowable Subject Matter

- 1. Claims 1-28 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The prior art of record does not teach or suggest, in the claimed combination, a sound transducer comprising at least one sound unit based on at least one radially sound emitting diaphragm arranged in a substantially cylindrical, the diaphragm consisting at least partly of electromechanically converting material capable of creating sound by changing its physical state upon electrical excitation, wherein within a single sound unit said diaphragm is arranged to be supported between an inner sound guiding sleeve and an outer sound guiding sleeve, the sleeves having substantially similar radial crosssectional shape in than said diaphragm, in order to form at least one axial acoustic channel between tie diaphragm and at least one of said sleeves, so that the sound waves generated by the diaphragm are arranged to be guided along said acoustic channel out from the sound unit, and that at least at the exit side of said acoustic channel the axial ends of the diaphragm and the corresponding sound guiding sleeve are arranged to have mutual non-alignment in the plane perpendicular to the axis of the sound unit in order to reduce the acoustic mass that said acoustic channel represents.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/698,347

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## **Conclusion**

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 4. Carme et al. (US 5,744,700) and Demeter et al. (US 4,010,334).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai T. Nguyen whose telephone number is (571) 272-2961. The examiner can normally be reached on Monday-Friday from 7:30am-5:00pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tai T. Nguyen Examiner

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